



## COMPUTER MOUSE

This invention refers to a computer mouse used to control the pointer on a monitor screen.

Sub  
B1

The existing mouse use a mechanical schematic with a rubber ball which will rotate the X and Y coordinate shafts, as the mouse is moved on a surface. The ball S is pressed against the X and Y shafts with a wheel H (Fig1).

al

The disadvantages of the existing mouse are: low precision of the mouse pointer on the screen as, it will get stuck often and it needs cleaning, especially the H wheel. The H wheel will create these problems because of the higher friction when it will move in a plane not perpendicular on it, and the dirt on the wheel H. The ball will not rotate smoothly.

This invention eliminates the above disadvantages, because it will eliminate the wheel H, which is responsible for most of the problems. Bellow we describe this invention according with the Figures 1 and 2, which represent:

Fig. 1. The mechanical schematic of an existing mouse.

Fig. 2. The mechanical schematic according with this invention.

In Fig. 2 the wheel is replaced with a magnet M, which will create the force F, necessary to press the ball S against the X and Y coordinate shafts. Between the magnet and the ball will exist air and the ball has a magnetic core. That will reduce the total ball friction, increase the precision and reduce the necessity for cleaning.